Department of the Interior
National Park Service
Yellowstone National Park
Yellowstone Park, Wyoming

April 26, 1928.

CIRCULAR NO. 4:

Hereafter, all time sheet will be made out, approved and submitted by the department head. This includes time slips for all permanent as well as temporary employees. The time sheets for the administration office and telephone office will be kept by the Chief Timekeeper. Mails will be listed for the full month, in accordance with Circular No. 3.

M. P. Dunn
Acting Superintendent.

Copies to:
Mr. Albright
Dunn
Woodring
Dale
Edwin
Springel
Eggen
Lord
Yeager
Bowman
Newman
Wiggins
Hobinson
McFarland

10-23

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Yellowstone NATIONAL PARK

FILE NO. 143

MONTHLY

REPORTS

April, 1928

APRIL 1928

File

May 4, 1928.

Dear Mr. Director:

The following is my report on the activities of the National Park Service during the month of April, 1928:

000 - General

Superintendent Albright spent the month enroute to and in Washington and the East in connection with his duties as Assistant Director (Field). He left San Francisco on March 15 for Los Angeles and remained there until the 17th. He spent the 19th and 20th at Grand Canyon, the 21st and 22nd at Carlsbad Cave National Monument. He was in Kansas City on the 23rd, for the evening; arrived at Chicago on the 24th and reached Washington on the 25th. From March 25 to April 17 he was in Washington and New York, spending the period from April 2 to 6 in New York. On his return to Washington on April 6 he stopped in Philadelphia. On April 3, he addressed the Conservation Department of the New York Federation of Womens Clubs at Wanamakers Auditorium on "The Bechler River Region in Yellowstone National Park." While in New York, he conferred with George D. Pratt and others on the Northern elk problem, the purchase of land, H. R. No. 15, and with John D. Rockefeller, Jr., on cleanup of roadsides, etc. On the 3rd, he attended a conference at the Yale Club in New York with E. J. Hamlin, president of the American Association of Museums, Dr. H. C. Burgess, Dr. Frank R. Gastler, Mr. L. V. Coleman, Secretary of the Museum Association, Kenneth Chorley, of the Laura Spelman Rockefeller Memorial, Mr. Mather, and Mr. Cammerer, on the new Yellowstone Museum for which one hundred twelve thousand dollars is available.

In Washington, attention was given to personnel and finance problems, 1930 estimates, etc. He appeared before the Budget Director on H. R. 15, Mr. Leavitt's Elk Refuge Bill, and on Mr. Winter's Jackson Hole Refuge Bill, carrying out the recommendation of the Elk Commission. On April 10, he appeared before the House Committee on Public Lands on several park bills and on April 4, before the Senate Committee on Public

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lands on the Norbeck bills to extend Yellowstone Park and add the Tetons. On April 16 he appeared before the same Senate Committee on H.R. 15, to provide funds to buy land north of the park for elk feeding grounds. He left Washington on April 17th and arrived in Chicago on the 18th to discuss Yellowstone affairs with railroad officials. On the 19th he arrived in Omaha to attend the annual convention of the Izaak Walton League. On April 23 he arrived in Cheyenne to attend to Yellowstone business with State officials. He returned to Yosemite National Park on the 27th.

Assistant Superintendent Merrill F. Daum was Acting Superintendent during his absence. Mr. Joffe has been in charge of the administrative side of the office during the month.

Road Conditions: There has been no motor travel within the park during the month except between the north entrance and park headquarters but conditions are now favorable for an early opening of the road between Mammoth Hot Springs, Madison Junction, Old Faithful and West Yellowstone. The road from headquarters to Buffalo Ranch will also be opened to motor travel within a few days. Information concerning approach roads is as follows: Livington to north entrance good; Ashton, Idaho, to West Yellowstone open from Ashton to Continental Divide; remainder to be opened within a few days; West Gallatin highway opened from West Yellowstone to Duck Creek and from Gallatin Ranger Station to Bozeman. Motor travel on the Cody road has reached a point within 7 miles of Sylvan Pass Station. The snow is rapidly disappearing and flood water conditions prevail; much of this road has been badly damaged by heavy hauling.

150 - Equipment and Supplies

Storehouse employees with the help of the Master Plumber and Master Electrician completed the consolidation of our general storehouse and the plumbing and electrical storehouse. Heretofore the latter two storehouses have been operated by Department heads and have been separated from the main storehouse. This necessitated considerable addition to the number of bins in the general storehouse to accommodate the supplies and materials from these two departments.

170 - Plans, Maps and Surveys

The work of this department consisted of general office routine, estimates of work, plans, cost data, etc.

180 - Circulars, placards, publicity bulletins, etc.

Vol. 5, No. 4, of Nature Notes was issued during the month; also Office Circulars Nos. 1, 2, 3, and 4 attached.

Leads in the Harvard Bills to Nation Bilingualism Pass and all the Dates. In April 15 to appoint Andrews the same Joseph Constitution on Eric. 15, to provide Phone to help Lead North of the jerk for all Feeling provide, in Lars Headlights on April 1?th and arrival 1? Hilmoge on the 1?th to Harvard Delivering editors with national officials. On the 1?th he arrived in Toledo to attend the annual conventions of the Lumber Dealers Congress. On April 20 he arrived in Chicago to attend to Philadelphia meetings with their officials to return to Toledo in National Park on the 27th.

Statistics Superintendent Carroll F. Jones was visiting superintendent during his absence. He joins the force in charge of the statistics bureau also of the office during the month.

Road Conditions. Plans are been in a better level while the years during the month without pressure the north extension and good bituminous pavers not available are the necessary for an early opening of the road between Toledo and Chicago. Delaware Junction, Ile Fairport and Port Clinton. The road from Sandusky to Marblehead Beach will also be opened to motor traffic within a few days. Improvements commencing approach made in Put Bridge. Arrangements to north entrance Lake Lake. In view Delaware open from Lake to Sandusky Bridge road to be opened at Ohio a few days. Port Clinton Bridge opened from Port Clinton Delaware in good and from Sandusky Bridge to Sandusky. Water Speed on the Ohio road has reached a point of 12 miles of Lyons road Sandusky. The road is quickly disappearing and front water conditions prevailing on Ohio road has been mostly changed by heavy building.

1?0 - Lumber and Supplies

Investment employees with the help of the Lumber Dealers Center Distribution supplied the organization of our general stockpiles and the planning and allocation warehouses. Since before the Lumber Dealers stockpiles have been supplied by Incorporated Tools and have been accounted from the main stockpiles. This amount based upon Lumbers and Lumber in the number of also in the general stockpiles to accommodate the supplies and materials from Lumber Dealers.

1?? - Plans, Time and Contracts

The work of this department consisted of general office records, estimates of work, plans, cost data, etc.

1?0 - Structures, planning, utility relocations, etc.

Vol. 3, No. 6, of Ohio Road was issued during the month also Office circulars Nos 1, 2, 3, and 4 attached.

200 - Maintenance, Improvements and New Construction

Road Maintenance: No work was done on road maintenance this month.

Maintenance - Buildings: The usual repairs to buildings was made by the carpenter-foreman.

Carpenter Shop: The carpenter-foreman and helper have been used in the storehouse building bins and shelves and making other improvements during most of the month.

Electrical Department: The Chief Electrician besides helping consolidate the electrical and telephone storehouse with the general storehouse wired the exhibits in the museum, finished the wiring in the new quarters for Chief Ranger Woodring, put in an electric exhaust fan for the paint shop, wired the auto starting switch for the new air compressor in the garage and hung 500 feet of cable messenger line to consolidate several of our service lines and the usual building maintenance work.

Plumbing Department: The following work was done by this department during the month: Completing repairs to heating stoves and ranges; general maintenance to inside plumbing and heating systems; operating four steam heating plants and four hot water heating plants; moving entire stock of plumbing, heating and water system supplies to new storehouse; maintenance to water and sewer systems at Mammoth.

Garage: Mechanics worked on the usual truck and motor equipment repair and other necessary maintenance on fixed equipment. There remains at the end of this month 8 F.W.D. trucks to be overhauled for the oil freighting fleet. These trucks will be built up from some 11 broken down trucks that have not been in use for the past year or two. Practically all other equipment that will be needed this year has been overhauled and is ready for the season's work. During the month the Master Painter and a helper lacquered two Graham gravel trucks, two touring cars and two other trucks.

Paint Shop: The Master Painter, besides working on the equipment as stated above, completed the second floor of Chief Ranger Woodring's quarters, completed the floors of the Trischman quarters and miscellaneous other painting and glazing jobs.

230 - Road Construction: No road construction this month.

240 - Improvement of Approaches to Park: The survey has been completed on the bridge across the Yellowstone River at the town of Gardiner at the north approach road to this park. Within the near future a contract will be let for the construction of this bridge and for the construction of most of the section between Gardiner and Corwin Springs.

[illegible] - [illegible]

[illegible] [illegible] [illegible] [

400 - Flora, fauna and natural phenomena

410 - Ranger Service

This service has consisted in part of regular and special patrols for the observation and protection of wild life and the natural features of the park, the care and maintenance of property and equipment, snow removal from buildings, observing and reporting water gage heights, precipitation, snow depths, temperatures, etc., winter season repairs and maintenance to telephone lines, wild animal and horse feeding and routine spring season work. This work has been under the immediate supervision of Chief Ranger Woodring and the Assistants Chief Park Ranger in charge of the various supervisory territories. The work of the Chief Ranger's office, consisting in part of report compilation, correspondence with applicants for ranger appointments, preparation of requests for appointments and all paper work connected with same, has been performed by Assistant Chief Ranger Greer. Blank forms, statistical charts and tables are also being prepared for use during the tourist season.

All ranger patrols in the various station districts have been promptly made and conditions are good throughout the park.

420 - Museum Service

Work for the month has been confined largely to the office and museum because of weather conditions. The museum exhibits have been changed in order to give more room and attain natural grouping. The contents of all cases have been removed, the cases cleaned and contents replaced. New labels have been installed in many cases. The complete wall exhibit of flowers have been taken down, new specimens attached to white cardboard, placed behind glass and remounted in the rack in a different portion of the museum. The model wild life groups are complete. They have been placed in series against one end of the museum. Lights have been installed in each group. The railing formerly around the mounted animals has been moved out giving an additional 40 square feet of space for these exhibits. Nature Notes for April was completed and 380 franked on the third of the month. The May issue is nearly complete and will be sent out in a few days. Ranger Naturalist Manual was completed and sent to Livingston Enterprise for binding.

470 - Animals

Wild animal and forage conditions are good. The snow is rapidly disappearing from all the lower elevations, fresh grasses are appearing and very few spring season losses have occurred.

Elk: There has been no unusual drift of the elk. Most of the bands are at elevations ranging from 6 to 7 thousand feet. Comparatively few weak and decrepit animals have been seen and losses during the month have been moderate. An effort was made to secure a full count of the northern herd on the 11th to 14th but conditions were very unfavorable. Large areas could be reached only by ski and snowshoe patrols. High winds, sharp temperatures and snow flurries, together with poor visibility generally

III - Flora, Fauna and natural phenomena

(a) - Ranger Service

This service has consisted in part of regular and special patrols for the conservation and protection of wild life and the natural features of the park, the care and maintenance of property and equipment, snow removal from buildings, measuring and recording water gage heights, precipitation, snow depths, temperatures, etc., winter season repairs and maintenance to telephone lines, with usual and normal routine and routine spring season work. This work has been under the immediate supervision of Chief Ranger Thompson and the Assistant Chief Park Ranger in charge of the various Supervisory districts. The work of the Chief Ranger's office, consisting in part of report compilation, correspondence with applicants for ranger appointments, preparation of requests for appointments and all paper work connected with same, has been performed by Assistant Chief Ranger Brown. Statistical charts and tables are also being prepared for use during the tourist season.

All ranger patrols in the various station districts have been properly made and conditions are good throughout the park.

(b) - Museum Service

Work for the month has been confined largely to the office and museum because of weather conditions. The museum exhibits have been changed in order to give more room and attain natural grouping. The contents of all cases have been checked, the cases cleaned and contents replaced. New labels have been installed in many cases. The complete wall exhibit of flowers have been taken down, the specimens attached to white cardboard, placed behind glass and remounted in the hall in a different portion of the museum. The small wild life groups are complete. They have been placed in series against one end of the museum. Lights have been installed in each group. The railing formerly around the mounted animals has been moved out giving an additional 40 square feet of space for these exhibits. Nature Notes for April was completed and [illegible] on the third of the month. The May issue is nearly complete and will be sent out in a few days. Ranger Naturalist Manual was completed and sent to Livingston [illegible] for binding.

(c) - Animals

Wild animal and forage conditions are good. The snow is rapidly disappearing from all the lower elevations, fresh grasses are appearing and very few spring months losses have occurred.

Elk. There has been an unusual drift of the elk. Most of the herds are at elevations ranging from 1 to 7 thousand feet. Comparatively few dead and decrepit animals have been seen and losses during the month have been negligible. In effort [illegible] to secure a full count of the northern herd on the [illegible] but conditions were very unfavorable. Large areas could be reached only by [illegible] patrols. High winds, heavy temperatures and snow flurries, together with poor visibility generally

prevailed. Satisfactory counts were reported from very few localities and a recount will be made at an early date. The count is noted for record purposes as follows:

Actual count in park	6322
Actual count on areas bordering the park (north side)	2637
	8959
10% added to actual counts	895
	9854
Gallatin herd, estimated as last year	3000
	12854 as compared with 17,347

at the close of February last year. Representatives of the Forest Service and State Game Department of Montana assisted with the count. There was a loss of 45 during the month. Total winter season losses to date 239, consisting of 20 bulls, 59 cows and 160 calves as compared with 440 to April 30th last year.

Deer: No unusual counts were submitted during the month. A loss of 7 winter kills were observed. The total losses this season exclusive of kills made by hunters are as follows: Killed by coyotes 38, winter kills 18, total 51, as compared with 61 at the close of April last year.

Antelope: The spring season dirft of the antelope now extends to Buffalo Ranch. The herd appears to be in excellent condition. They are moving up along the Yellowstone as the snow recedes from the higher elevations and very few are now on their winter range outside the park. A band of 23 appeared at Buffalo Ranch on May 1st. This drift is not unusual in point of time.

Sheep: There is nothing of interest to report concerning sheep at this time.

Moose: Appearances of moose have been recently noted as follows: Two mile post south of Mammoth Hot Springs 2 cows, 2 calves and 1 bull, and 2 bulls near Cooke Ranger Station, 2 bulls near Sportsman Lake, 1 bull near Grayling Cabin and 1 bull at Lower Geyser Basin. Signs have been noted at numerous other points. There is every indication that they will be seen in their usual numbers at points along the loop road this season.

Buffalo - Lamar River Herd: The drift from the feed ground has been in progress since early in the month to points in the Slough Creek, Tower Falls and Hellroaring Districts. Considerable riding has been required to keep the drift under control and prevent movements beyond the park limits. Most of the herd is now assembled near the junction of Slough Creek and the Lamar River. Feeding of the herd was concluded on the 24th. The first of the 1928 calf crop arrived on the 17th and a total of 8 have been calved to date. A loss of one, an infirm and decrepit old bull, occurred from natural causes. Herd conditions are excellent.

[illegible] [illegible] in [illegible]
[illegible] [illegible] on [illegible]
[illegible] [illegible] [illegible]
[illegible]

[illegible]

[illegible] [illegible] [illegible]

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[illegible] [illegible]

[illegible]

[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

[illegible]

[illegible] [illegible] [illegible] [

Buffalo - Cold Creek-Pelican Creek Herd: There is nothing of interest to report at this time except that 27 were counted on the Pelican Creek meadows on a recent patrol from Yellowstone Lake to Cold Creek Basin. Forage conditions were bad and the animals were thin and poorly nourished.

Bears: Bears of the black and brown variety are now seen almost daily in the vicinity of all stations along the loop road. Their spring season appearances are usually attended by minor depredations but no property loss or damage has been reported thus far. Signs of grizzlies have been observed in the Sportsman Lake, Thorofare and Pebble Creek districts.

Predatory Animals: Nine coyotes were killed by rangers during the month, which together with 275 previously reported, makes a total of 284 thus far as compared with 238 at the close of April last year, 243 in 1926 and 172 in 1925.

Small Animals: There is nothing of special interest concerning small animals at this time.

Buffalo and Other Ranch Operations: The activities at Buffalo Ranch have consisted principally of the care and feeding of the herd, together with the care and keep of team and saddle horses and the maintenance and care of the ranch property. Buffalo feeding was concluded on the 24th. The first calf of the season arrived on the 17th and 8 were counted at the close of the month. There were no activities at the Gardiner and Yancey Ranches during the month. The activities at the Slough Creek ranch consisted of horse feeding, cleanup and maintenance work. Ditch cleaning, repairs to fences, buildings and equipment will comprise the principal ranch activities for the month of May. A statement of the balance of hay on hand at each of the ranches and a full report of tonnage fed during the winter will be submitted in the May report.

480 - Natural Phenomena

Mammoth Hot Springs: Constantly shifting, the hot springs formations at Mammoth have undergone a noticeable change since the beginning of April. Nearly all of the snow has disappeared and the season is much farther advanced than at this time last year. Beds of miniature buttercups are blooming in the hollows beneath the pines where decaying needles have covered the travertine with a thin coating of loam. On a mossy bank near Soda Spring a few scattered, blue violets were in flower. At this point the ground, heated by subterranean steam and vapors, felt warm to the touch.

The most interesting thing noted was around the numerous vents and springs where a great deal of sulphur has been deposited by the vapors. The ground in these places had been rubbed and clawed and rolled upon. The tracks were all made by the soft pads and sharp claws of bears.

There were many deer but very few elk tracks. One dead male deer was seen near the foot of Jupiter Terrace. There were no dead birds in Stygian Caves but one pink-sided junco was found in a smaller cave nearby. A large and very spiny porcupine was seen near Orange Spring. The garbage can at Devils Kitchenette had been violently overturned as though some inquisitive bruin had made an investigation.

[illegible]

[illegible]

[illegible]

As to the springs themselves. Orange Spring Mound is active on two sides and the small spring to the east is again showing considerable vigor. White Elephant Back Terrace is active at five points along its broad mound, giving a blotched appearance. Angel Terrace and Old Angel Terrace appear to be competing for honors in beauty, - both are lovely at the present time and both are increasing in size. The small "gusher" which was noted in this vicinity earlier in the month is entirely dry at present. Glen Spring is active and brilliantly colored.

Jupiter Springs and the Blue Springs have very noticeably decreased in the amount of water pouring forth during the month though the temperatures of most of them have not changed at all. Contrary to the general change the northernmost of the Blue Springs is nearly as active as it was in 1922 when it first made its appearance. The crack along Main Terrace is now entirely dry. Mound, Cleopatra, Hymen and Minerva Terraces remain much the same as they were at the end of last month, Minerva being the only one that is entirely dry.

Upper Geyser Basin: Ranger Baker, observer at Old Faithful, reports some variances from normal spring season activities. Brief notes on the principal geysers are submitted as follows: Castle, height slightly above normal, maximum 40 to 70 feet, duration 24 to 30 minute intervals, 2 to 3 days, as compared with 4 to 6 days during February and March. Giant, erupted during the night of April 18. It was not observed in action. Interval 19 days from previous eruption. Riverside has been active on a 7 to 8 hour interval; height 90 to 110 feet on the incline, duration 10 to 12 minutes. Daisy, interval 70 to 90 minutes, maximum height 80 feet, duration 2½ to 2-3/4 minutes. Old Faithful, eruption at 60 minute intervals, duration 3 to 4 minutes, height 130 to 160 feet. Several eruptions of less than half the normal duration were observed. Grand, eruptions uniform on 10 to 12 hour intervals, duration 25 to 28 minutes, height 150 to 160 feet. Beehive, no eruptions since March 21st, violent spurtings, however, have displaced the pole over the orifice indicating an eruption at an early date. Giantess, boiling violently to height of from 4 to 5 feet. More active than at any time this winter. Indications of an eruption within a few days.

490 - Miscellaneous

Izaak Walton League: The local chapter of the Izaak Walton League of America, now consisting of 80 members, was represented at the National Convention held at Omaha, Nebr., by Mr. E. J. Sawyer, former Park Naturalist. Assistant Chief Ranger Julius L. Greer, also a member of the local chapter, attended the convention in his capacity as President of the Wyoming Division. Mr. Sawyer was accorded a place on the program with a chalk talk on the wild life of Yellowstone Park. His remarks and illustrations attracted a great deal of attention and many favorable comments were heard. Mr. Greer read an interesting and comprehensive report of Izaak Walton League activities in Wyoming. He was afterwards elected to the office of National Director for the three year term. Superintendent Horace M. Albright of the Yellowstone National Park was a visitor on the floor of the Convention on the afternoon of the 19th and upon being introduced by the chairman responded with appropriate remarks which received a most cordial response. Dr. Henry Baldwin Ward of Illinois is the new National President.

is in the spring thunderstorm. Insects flying round in strike in his sides and the small spring is the most in again showing considerable vigor. Little Jiggerboo does further in another at five points along the river bank, giving a lifeless appearance. Adult Jerseys did not show further signs of so comparing for Jiggerboo in summary, - both are legally at the present time and both are increasing in size. The small "yearling" which was noted in this vicinity earlier in the month is actively by its presence, also feeding in water and initially active.

Jigger species and the fish species may additionally increased in the months of water period during April during the month through the beginning of mark of time been not changed a little. Cyclopsis is by general should the appearance of the fish during is mostly or mainly as it was in July when it first made its appearance. The minus under their forces is not vertically by Jiggerboo, Cyclopsis, Sphaer and Daphnia because fresh been the more as they were at the end of last month. Cyclopsis being the only one that is actually dry.

Upper Jersey Junior. Jigger Jersey, observer at its inlet, reports some variance from normal during summer activities. Total water on the particular grounds are associated as follows: Sunfish, bullfrog above normal, medium in in fish, bullfrog in in Atlantic tadpoles, I in I days, as compared to 1 to 4 days during February and March. Sunfish emerged during the night of April 13. It was not observed in matings. Observed 12 days from previous emergence. Sunfish has been active in a 2 to 3 hour interval height in the first on the bottom, bullfrog in 1 to 12 minutes. Jiggerboo, interval 1 to 30 minutes, minimum height 20 feet, bullfrog in 2-1/2 minutes. Jiggerboo, emergence at 10 minute intervals, bullfrog 1 to 2 minutes, height 1/2 to 1 foot. Normal emergence of less than half the normal duration were observed. Sunfish, emergence pattern on 10 to 12 hour intervals, duration 45 to 50 minutes, height 20 to 30 feet. Bullfrog, no emergence above fresh fish, minimum emergence, have distinguish the pair over the entire indicating an preying on an early date. Jiggerboo, bullfrog relatively in height of from 6 to 5 feet. Here active than at any time this winter. Indications of an emergence period a few days.

1950 - Minneiniscoos

Inner Jersey Junior. The Jersey chapter of the Lamont Fish Society of Jersey, has committed of the members, was represented at the Annual Conventions held at Omaha, Sept., by Mr. L. A. Jigger, former fish biologist, and Mr. Jiggerboo fish biologist in Jersey, also a member of the Lamont chapter, attended the conventions in his capacity as president of the Jersey Society. Mr. Jigger was elected a place on the program with a talk on the life of Tadpoles in. Mr. Jiggerboo and Jiggerboo presented a joint last of interest and many Jersey's members were there. Mr. Jigger read an interesting and comprehensive report of Lamont Junior Jersey activities in Jersey. In the afternoon session in the office of National Jersey for the three year term. Jiggerboo Jersey is chairman of the Jersey Jersey Fish Junior was a member on the floor of the Jersey as the affairs of the life and open voting determined by the chairman respondent of the Jersey. Jiggerboo which involved a most vertical requests. Mr. Jerry Jiggerboo of Illinois is the new National President.

500 - Use of Park Facilities by the Public

510 - Increase or decrease of travel

All entrance and exit travel during the month was via the Gardiner Gateway. This travel consisted principally of visiting clergymen, salesmen, business callers and friends of local residents. Winter season visitors are not registered upon entering or leaving the park but the travel as observed and noted by the ranger in charge at the Gardiner Gateway is reported as follows: North Entrance, 58 cars; 145 visitors. The preseason travel at the close of April this year consists of 2432 visitors traveling in 883 cars, as compared with 1585 visitors in 574 cars at the close of April last year and 827 visitors in 224 cars at the close of April 1926.

520 - General Weather Conditions

The temperatures for the month as a whole averaged somewhat below the normal. During the first three weeks subnormal temperatures were recorded on all but two days. The highest temperature was 66° on the 27th, the lowest -2° on the 8th. Only once before on record, for this month, has a temperature lower than -2° occurred. Cloudy and unsettled weather prevailed with precipitation on 21 days. Snowfall totaled 19.2 inches, more than twice the normal amount. On the 19th and 20th, 9.1 inches of snow fell, the heaviest fall during the month. The greatest depth on the ground during the month was 4.6 inches on the 20th. No snow remained on the ground after the 22nd. The amount of sunshine was normal. There were 2 clear days, 12 partly cloudy, 16 cloudy, and 15 with .01 or more precipitation. The wind movement was only slightly below the normal with an average of 7.7 miles per hour. The maximum velocity was 30 miles per hour from the southwest and occurred on the 2nd.

521 - Snow Depths:

Snow depths throughout the park with comparative figures for 1927 and 1926 are noted as follows:

Station	1926 Inches	1927 Inches	1928 Inches
Lake	Drifts only	28	25
Snake River	" "	47	57
Sylvan Pass	" "	24	25
Riverside	" "	16	10
Gallatin	" "	15	19
Slough Creek, Upper Ranch	" "	16	12
Slough Creek, Lower Ranch	" "	12	10
Canyon	8 inches	28	22
Bechler	Drifts only	55	58
Cooke	" "	22	41
Old Faithful	" "	24	12

Snow depths at other points are noted as follows: Cascade Cabin 100 inches, Aster Creek 89 inches, Seven Mile Post north of Snake River Station 140 inches, Thoroofare Cabin 58 inches, Cub Creek Cabin 68 inches, Mist Creek Divide

5th - The of iron resistive to the Thames

6th - Increase or decrease of travel

All columns and will travel during the month one via the Arctic Ocean. This trend resulted probably of existing shortages, mission, business matters and friends of local relatives. These causes visitors are not replaced upon maturity or leaving the port but the period is shortened and period by the reason is always at the footing-listing. Is involved as failure. Yards in tension, yet average statistics. The pressure level is the close of April this year remains at left minutes beneath. In 1939 more, as compared with 1938 statistics. In 1939 were at the close of April last year and 1937 statistics in 1937 were at the close of April 1938.

7th - Ground temperature conditions

The temperature for the month is a week preceding somewhat below the normal. During the first three weeks minimum temperatures were reported on all but two days. The highest temperature was 68° on the 27th, the lowest -27th the 8th. Only seven days were on record, for this month, had a temperature lower than -5°. Cloudy and unsettled weather prevailed with precipitation on 21 days. Normal rainfall 1.7 inches, more than twice the normal amount. In the 12th and 27th, 3.1 inches of snow fell, the heaviest fall during the month. The greatest depth on the ground during the month was 4.5 inches on the 27th. No snow remained on the ground after the 31st. The number of sunshine was normal. There were 2 clear days, 12 partly cloudy, 16 cloudy, and 13 with .01 or more precipitation. The wind movement was only slightly below the normal with an average of 7.7 miles per hour. The maximum velocity was 30 miles per hour from the northwest and recorded on the 3rd.

8th - Lake Superior

Snow depths throughout the year with comparative figures for 1937 and 1938 are noted as follows:

Station	1939 Depth	1937 Depth	1938 Depth
Lake	Ontario only	0	0
Grand River	" "	12	0
Grand Trunk	" "	18	0
Kinnaman	" "	14	0
Pullman	" "	15	17
Black Creek, Upper Branch	" "	14	13
Black Creek, Lower Branch	" "	14	13
Dunnigan	8 inches	20	0
Bradley	Ontario only	20	0
Sandy	" "	20	0
Old Tailings	" "	24	0

Snow depths at other points are noted as follows: Toronto with 12 inches, Lake Erie, 27 inches, Irish Hill north of Lake River Station 12 inches, Shawbridge 12 inches, Old Creek Canal 12 inches, Lake Erie 12 inches

79 inches and Gold Creek Cabin 45 inches. The snow is rapidly receding in the central and northern areas of the park and flood water conditions prevail in all the streams. The roads from Gardiner and West Yellowstone to Old Faithful, Canyon and Yellowstone Lake will probably be opened to tourist travel on or about June 1st.

900 - Miscellaneous

Hospital and Medical Service: Dr. Anderson reports 29 house calls and 34 office calls during the month.

Post Office: The regular business of the office was normal for the month. During April bids were received for furnishing quarters and clerical help to handle five postal stations in the park, to be established for the tourist season at Old Faithful, Lake Outlet, Fishing Bridge Auto Camp, Canyon Junction and Tower Fall Auto Camp. Notice of awards have not yet been received. Notices inviting bids for a Star Route service to connect up these stations, were posted to be opened May 22nd.

Church Services: Easter service was held in the Chapel Easter evening, April 6th, by Rev. H. Cowley-Carroll, Episcopal minister from Livingston. English Lutheran services were held in the Lodge Room room Tuesday evening, April 10, by Rev. Webster H. Clement. Methodist services were held on Wednesday evening, April 18th, in the Lodge Room, by Rev. Otto G. Foemth.

Very truly yours,

M. F. Daum
Acting Superintendent.

The Director,
National Park Service,
Washington, D. C.

AAS

[illegible] and that [illegible] [illegible] of [illegible]. The [illegible] is rapidly [illegible] in the [illegible] and [illegible] [illegible] of the [illegible] and [illegible] [illegible] [illegible]

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

YELLOWSTONE National Park for the Month of APRIL 1928

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year	
					Number	Percent
PRIVATE TRANSPORTATION:						
Cars first entry	58	883	49	574	309	54
Cars reentry						
Motorcycles						
Total motor vehicles	58	883	49	574	309	54
Persons entering via motor vehicles	145	2432	147	1585	847	53
Persons entering via other private transportation						
Total persons entering via private transportation	145	2432	147	1585	847	53
OTHER TRANSPORTATION:						
Persons entering via stages						
Persons entering via trains						
Persons entering otherwise						
Total other transportation						
GRAND TOTAL ALL VISITORS	145	2432	147	1585	847	53

	This Year	Last Year	Increase	
			Number	Percent
Automobiles in public camps during month				
Campers in public camps during month				

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

TRAVEL REPORT

YELLOWSTONE ..... National Park for the Month of 1927

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
PRIVATE TRANSPORTATION:						
Private hired autos	48	885	49	924	909	94
Private jitneys						
Motorcycles						
Total motor vehicles	48	885	49	924	909	94
Persons entering via motor vehicles	145	2432	147	1965	647	55
Persons entering via other private transportation						
Total persons entering via private transportation .	145	2432	147	1965	647	55
PUBLIC TRANSPORTATION:						
Persons entering via stages .						
Persons entering via trains .						
Persons entering otherwise .						
Total other transportation..						
TOTAL ALL VISITORS	145	2432	147	1965	647	55

	This Year	Last Year	Increase Number	Increase Percent
Automobiles in public camps during month				
Campers in public camps during month				

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

YELLOWSTONE National Park for the Month of APRIL 1928

	This Month	This Month Last Year
Number of employees beginning of month,	69	66
Number of additions, ...	2	1
Total, ...	71	67
Number of separations, ...	2	1
Number of employees close of month, . .	69	66
Number of promotions during month	0	0
Aggregate amount of annual leave taken,	77	183
Aggregate amount of sick leave taken,	8	11
Aggregate amount of leave without pay,	11	30

10-159

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

STATUS OF PERSONNEL

..... National Park for the Month of .....

	This Month	Last Month	This Month Last Year
Number of employees beginning of month,	69	68	64
Number of additions, ...	8	4	1
Total, ...	77	72	65
Number of separations, ...	8	3	1
Number of employees close of month,	69	69	64
Number of promotions during month	6	6	0
Aggregate amount of annual leave taken,	17	15	15
Aggregate amount of sick leave taken,	7	11	11
Aggregate amount of leave without pay,	14	5	5

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UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

YELLOWSTONE National Park for the Month of APRIL 1928

	This Year	Last Year
Park revenue on hand beginning of month,	000	000
Received,	127.53	21.66
Total,	127.53	21.66
Remitted,	127.53	21.66
On hand close of month,	00	21.66

Park revenues received this year to date,	$237,313.33
Park revenues received last year to date,	216,319.38
Increase,	$ 20,993.95
Percent of increase,	10.3

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

REPORT OF PARK REVENUES

Yellowstone National Park for the Month of April 1924

	This Year	Last Year
Park revenue on hand beginning of month,	000	000
Received,	127.55	21.66
Total,	127.55	21.66
Remitted,	127.55	21.66
On hand close of month,	00	21.66

Park revenues received this year to date, $127,[illegible]

Park revenues received last year to date, 216,[illegible]

Increase, $ [illegible]

Percent of increase, 10.3

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

*ELECTRICITY GENERATED, SOLD, USED, ETC.

YELLOWSTONE National Park for the Month of APRIL, 1928

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
urrent generated, ...	51360	625620	45900	590932.0	34688.0	6
old to park operators, . . .	1845.9	80788.6	1294.1	81132.5	-343.9	-0.4
old to others, ...						
urnished to other Governmental agencies, ...						
sed by National Park Service, lost in transit, etc., . . .	49514.1	544831.4	44605.9	509799.5	35031.9	7
Total current generated, . .	51360.0	625620.0	45900.0	590932.0	34688.0	6

mount receivable from the sale of electricity, ... $ 92.29

Indicated by K. W. H.

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

"ELECTRICITY GENERATED, SOLD, USED, ETC.

[illegible] National Park for the Month of [illegible], 1934

	This Month	This Travel Year To Date	This Month Last Year	Last Travel Year To Date	Increase for Travel Year Number	Increase for Travel Year Percent
rent generated, ...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6
d to park operators, . . .	[illegible]	[illegible]	[illegible]	[illegible]	-[illegible]	-0.4
d to others, ...						
rnished to other Governmental gencies, ...						
d by National Park Service, ost in transit, etc., . . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7
otal current generated, . .	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6

---

ount receivable from the sale of electricity, ... $ [illegible]

---

ndicated by K. W. H.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

YELLOWSTONE National Park for the Month of APRIL 1928

	This Month	This Month Last Year	Increase	Percent Increase
OCAL BUSINESS				
iles of circuit maintained,	462	391	71	18
o. of telephones connected,	146	141	5	.035
o. of measured service calls,				
o. of other local calls,				
otal No. of local calls,	6490	6838	-348	-.05
eak load in calls per day,	343	342	1	.002
eceipts from measured service calls,				
" " coin boxes,				
" " telephone rental,				
TOTAL RECEIPTS				
ONG DISTANCE BUSINESS				
o. Outbound calls,	70	58	12	.20
o. Inbound calls,	115	116	-1	.008
TOTAL LONG DISTANCE CALLS				
eak load in calls per day,	14	12	2	.166
eceipts from Long Distance business,	$50.38	$26.56	$23.82	8
of this revenue accrues to the Mountain States Telephone & Telegraph Co.)				
ELEGRAPH BUSINESS				
essages via Western Union,				
essages via				
TOTAL MESSAGES				
eceipts from telegraph business,				
o. of money transfer messages,				
" " " receipts,				
OTAL RECEIPTS TELEPHONE & TELEGRAPH DEPTS-				

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REPORT OF TELEPHONE AND TELEGRAPH BUSINESS

National Park for the Month of

	This Month	This Month Last Year	Increase	Percent Increase
AL BUSINESS				
e of circuit maintained,	[illegible]	[illegible]	[illegible]	[illegible]
of telephones connected,	146	141	5	.035
of measured service calls,				
of other local calls,	[illegible]	[illegible]	[illegible]	[illegible]
al No. of local calls,	[illegible]	[illegible]	[illegible]	[illegible]
k load in calls per day,	343	342	1	.002
eipts from measured service calls,				
" " coin boxes,				
" " telephone rental,				
TOTAL RECEIPTS				
G DISTANCE BUSINESS				
Outbound calls,	70	58	12	.20
Inbound calls,	115	116	-1	.008
TOTAL LONG DISTANCE CALLS				
k load in calls per day,	14	12	2	.166
eipts from Long Distance business,	[illegible]	[illegible]	[illegible]	[illegible]
EGRAPH BUSINESS				
sages via Western Union,				
sages via				
TOTAL MESSAGES				
eipts from telegraph business,				
of money transfer messages,				
" " " receipts,				
AL RECEIPTS TELEPHONE & TELEGRAPH DEPTS-				

DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYOMING

April 3, 1928.

CIRCULAR NO. 1

In view of the resignation of Mrs. Charles A. Brant as Chairman of the Yellowstone Park School Board, Dr. Howard C. Anderson is hereby appointed Chairman of the Board. Mr. A. C. Newmann will be the other member of the board. No third member will be appointed to fill out the school year. Beginning with the next school term three members will be appointed on the School Board.

M. F. Daum
Acting Superintendent.

Yellowstone Park, Wyoming
April 26, 1928.

CIRCULAR NO. 2.

Quarters assignment, as made in Circular No. 15, August 31, 1927, will be changed as follows:

Quarters formerly occupied by W. P. Webber are assigned to Master Mechanic R. R. Robinson.

Quarters now occupied by Master Mechanic R. R. Robinson are assigned to Foreman O. A. Weisgerber.

M. F. Daum
Acting Superintendent.

Telewriting Corp. Operator
April 25, 1957.

CIRCULAR NO. 2.

Effective assignment, as noted in Circular No. 19, August 31, 1956, will be changed as follows:

Operators formerly assigned by M. F. Bolter are assigned to Sister Elizabeth M. Holmes.

Operators now assigned by Sister Elizabeth M. M. Holmes are assigned to Frances M. A. Wolgemuth.

M. F. Dunn
Acting Superintendent.

Department of the Interior
National Park Service
Yellowstone National Park
Yellowstone Park, Wyoming

April 26, 1928.

CIRCULAR NO. 3.

Effective May 1st, the deduction for meals for all employees who eat regularly at any Government mess, either in Mammoth Hot Springs or in the park, will be at the rate of $1.20 per day.

For those employees who take occasional meals, or for transients, the rate will be fifty cents per meal.

During the time of operation of the cafeteria or other privately operated eating places at Mammoth Hot Springs, no transients will be fed at the Government mess house.

All temporary employees, including the temporary rangers, who avail themselves of the Government mess, will be charged at the full rate, $1.20 per day, whether or not all meals are taken.

M. F. Daum,
Acting Superintendent.

Copies to:
Mr. Albright
Daum
Woodring
Dale
Edwin
Sprinkel
Eggen
Lord
Yeager
Bowman
Neuman
Wiggins
Robinson
McFarland
Mess House

Department of the Interior
National Park Service
Yellowstone National Park
Yellowstone Park, Wyoming

April 26, 1[illegible].

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M. P. Daum,
Acting Superintendent.

Copies to:
Mr. Albright
Daum
Woodring
Dale
Edwin
Sprinkel
Bowen
Lord
Yeager
Bowman
Hermann
Wiggins
Robinson
McFarland
Mess House

Department of the Interior
National Park Service
Yellowstone National Park
Yellowstone Park, Wyoming

April 26, 1928.

CIRCULAR NO. 4

Hereafter, all time sheets will be made out, approved and submitted by the department head. This includes time slips for all permanent as well as temporary employees. The time sheets for the administration office and telephone office will be kept by the Chief Timekeeper. Meals will be listed for the full month, in accordance with Circular No. 3.

M. F. Daum,
Acting Superintendent.

Copies to:
Mr. Albright
Daum
Woodring
Dale
Edwin
Sprinkel
Eggen
Lord
Yeager
Bowman
Neuman
Wiggins
Robinson
McFarland

Bound by Dieter for Y.L.M.A.

DIETER BINDS BETTER
DENVER COLO